

# XS-AW850

## SERVICE MANUAL

US Model



### SPECIFICATIONS

#### POWER OUTPUT AND TOTAL HARMONIC DISTORTION

22 watts per channel minimum continuous average power into 4 ohms, both channels driven from 100 Hz to 20 kHz with no more than 1% total harmonic distortion.

#### Other Specifications

##### Speaker section

Woofer 20 cm, cone type  
Impedance 6 ohm

##### Power amplifier section

Circuit system OTL (output transformerless) circuit  
Pulse power supply

Inputs RCA pin jacks  
High level input connector

Outputs Speaker connector

Speaker impedance 4  $\Omega$  (stereo)

Maximum outputs Front/Rear outputs:  
50 watts  $\times$  4 (at 4 ohms)  
Subwoofer output:  
120 watts  $\times$  1 (at 6 ohms)

Rated outputs (supply voltage at 14.4 V)  
Front/Rear outputs:  
22 watts  $\times$  4 (100 Hz - 20 kHz,  
1 % THD, at 4 ohms)  
Subwoofer output:  
60 watts (100 Hz, 1 % THD, at  
6 ohms)

Frequency response Front/Rear outputs:  
50 Hz - 50 kHz ( $\pm$  3 dB)

Harmonic distortion Front/Rear 0.1 % or less (at  
1 kHz)  
Subwoofer 0.05 % or less (at  
100 Hz)

##### Input sensitivity

0.7 V (RCA pin jacks)  
8.0 V (High level input)

##### High-pass filter

50 - 150 Hz, -12 dB/oct

##### System Section

##### Power requirements

12 V DC car battery  
(negative ground)

##### Power supply voltage

10.5 - 16 V

##### Current drain

at rated output: 19 A  
Remote input: 1.5 mA

##### Dimensions

Approx. 380  $\times$  226  $\times$  190 mm  
(w/h/d) (15  $\times$  9  $\times$  7  $\frac{1}{2}$  in.) not  
incl. projecting parts and  
controls

##### Mass

Approx. 6.4 kg (14 lb.) not incl.  
accessories

##### Supplied accessories

Mounting screws ( $\phi$ 5  $\times$  20: 4,  
 $\phi$ 5  $\times$  25: 4), Fittings (4),  
Terminal Cap

Design and specifications are subject to change  
without notice.

## 5 CHANNEL ACTIVE SUBWOOFER



# SONY®

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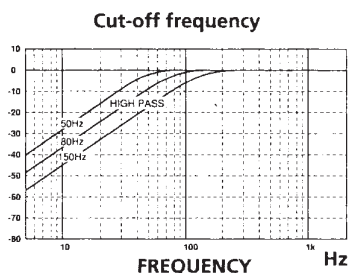
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## SECTION 1 GENERAL

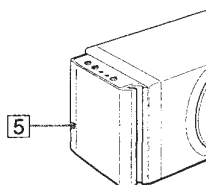
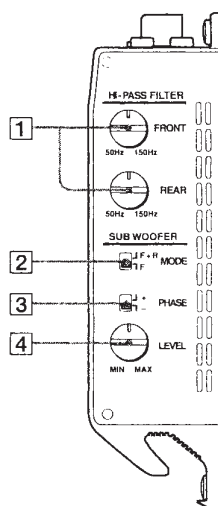
This section is extracted from instruction manual.

### Location and Function of Controls

- 1 Cut-off frequency adjustment control**  
Sets the cut-off frequency (50–150 Hz) for the high-pass filters.



- 2 MODE select switch**  
The switch can be used to change the subwoofer output as follows.  
FRONT : Outputs the input signal to the FRONT input jack.  
F+R : Outputs the input signal to the FRONT and REAR input jacks.
- 3 PHASE select switch (Subwoofer only)**  
Use this switch to change the phase of the reproduced sound to match your audio system.
- 4 LEVEL control**  
Turn this control to adjust the subwoofer output level.
- 5 POWER/PROTECTOR indicator**  
Lights up in green while the unit is in operation. The color will change from green to amber and the unit will shut down when the protection circuit is activated if a DC current is generated.

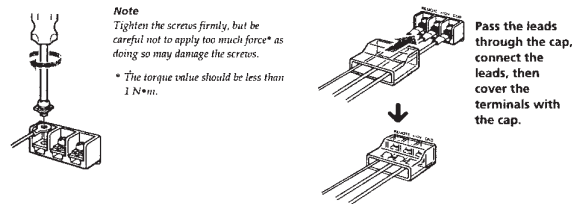


# Connections

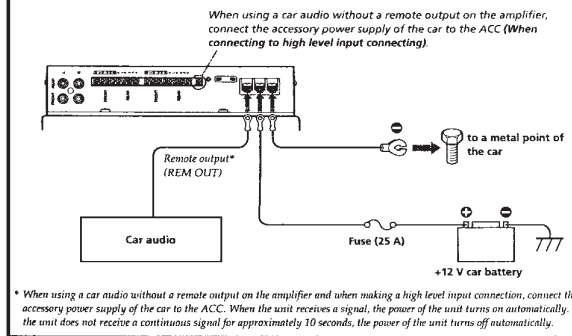
## Caution

- Before making any connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Be sure to use speakers with an adequate power rating. If you use small capacity speakers, they may be damaged.
- Do not connect the  $\ominus$  terminal of the speaker system to the car chassis, and do not connect the  $\ominus$  terminal of the right speaker with that of the left speaker.
- Install the input and output cords away from the power supply lead as running them close together can generate some interference noise.
- This unit is a high-power amplifier. Therefore, it may not perform to its full potential if used with the speaker cords supplied with the car.
- If your car is equipped with a computer system for navigation or some other purpose, do not remove the ground wire from the car battery. If you disconnect the wire, the computer memory may be erased. To avoid short circuits when making connections, disconnect the +12 V power supply lead until all the other leads have been connected.

Make the terminal connections as illustrated below.



## Power Connection Leads

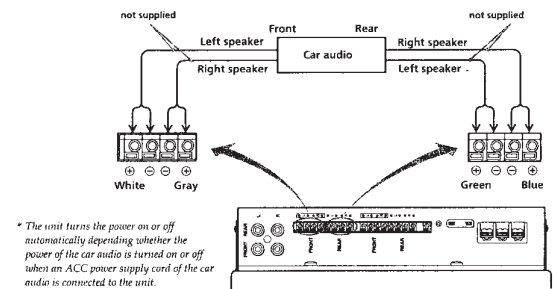


### Notes on the power supply

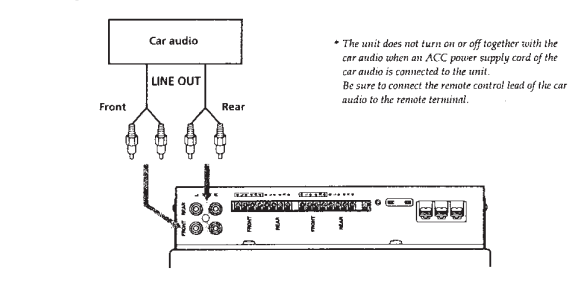
- Connect the +12 V power supply lead only after all the other leads have been connected.
- Be sure to connect the ground lead of the unit securely to a metal surface of the car. A loose connection may cause the amplifier to malfunction.
- Be sure to connect the remote control lead of the car audio to the remote terminal.
- Use the power supply lead with a fuse attached (25 A).
- Place the fuse in the power supply lead as close as possible to the car battery.
- Make sure that the leads to be connected to the +12 V and GND terminals of this unit are larger than 10-Gauge (AWG-10) or have a sectional area of more than 5 mm<sup>2</sup>.
- When using the optional RC-46 power amplifier connecting cord, consult that manual for proper use.

## Input Connections

### High Level Input Connection

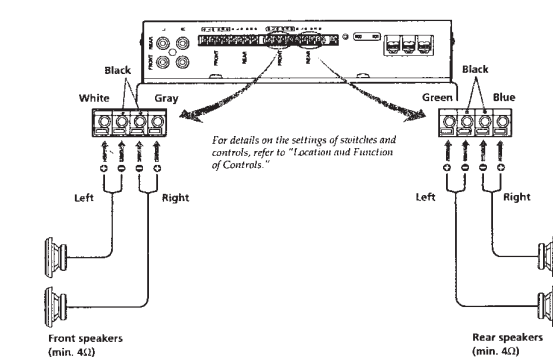


### Line Input Connection

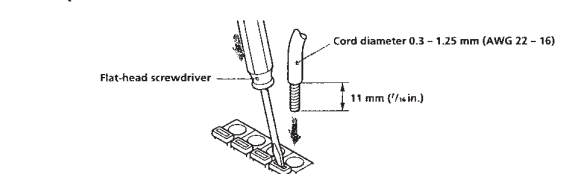


## Speaker Connections

### 4-Speaker System



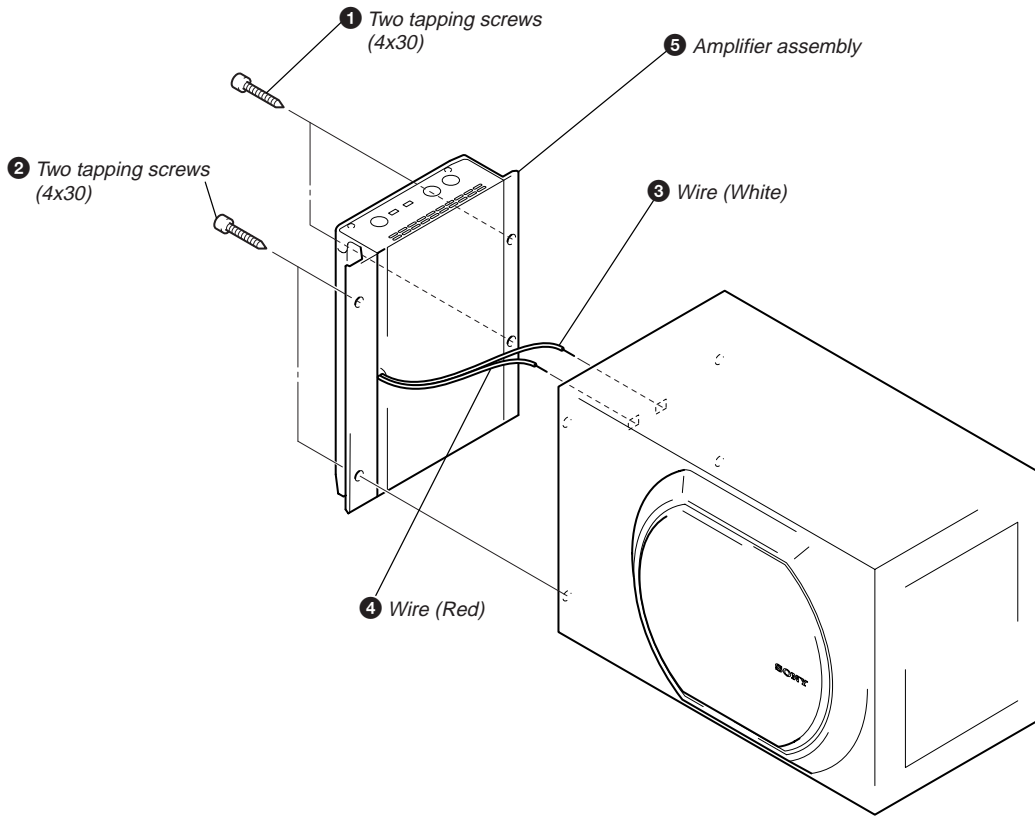
### Direct speaker cord connection



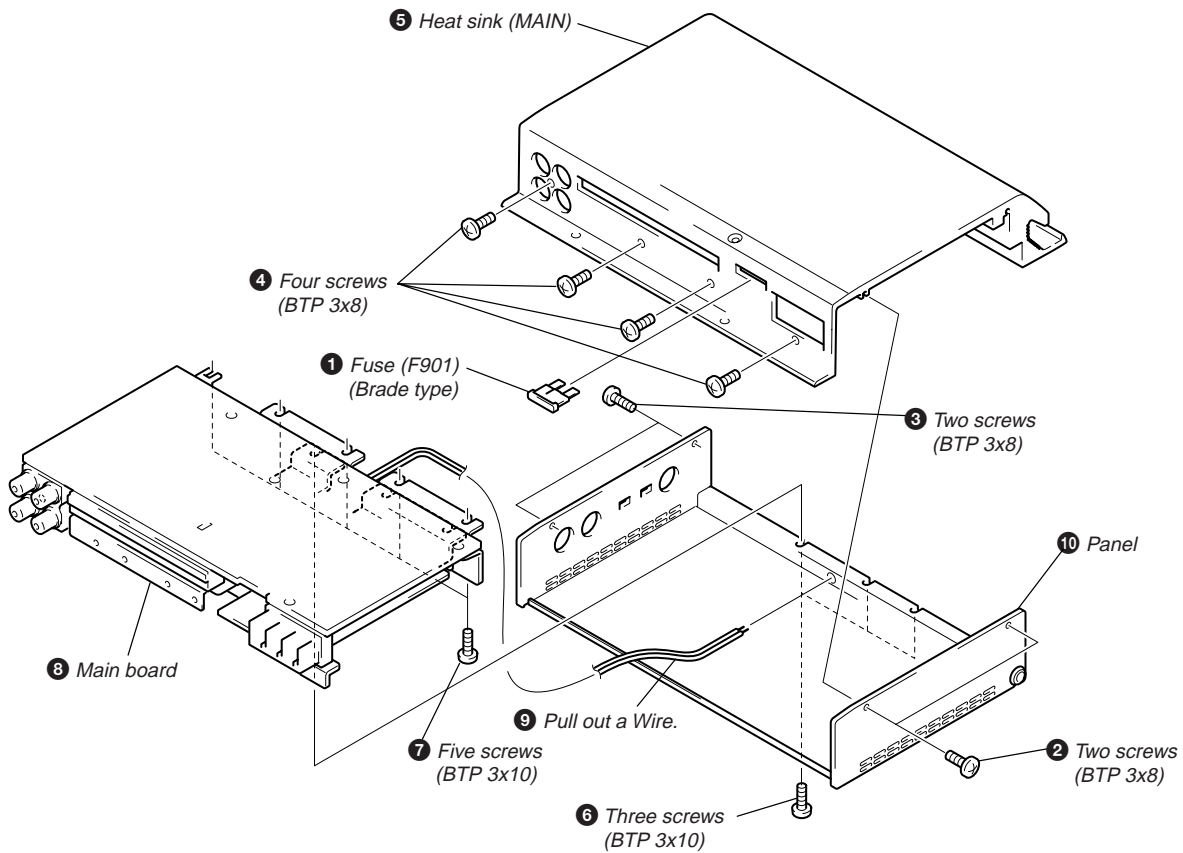
## SECTION 2 DISASSEMBLY

**Note:** Follow the disassembly procedure in the numerical order given.

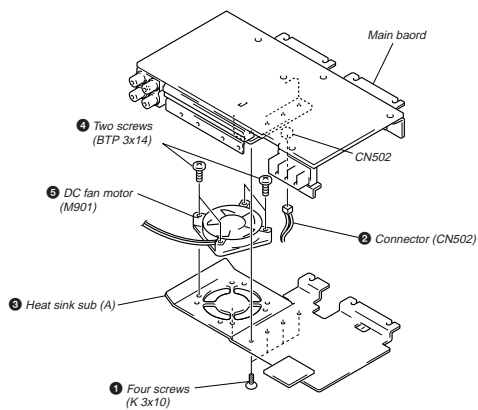
### 2-1. AMPLIFIER ASSEMBLY



### 2-2. MAIN BOARD



2-3. DC FAN MOTOR



SECTION 3  
DIAGRAMS

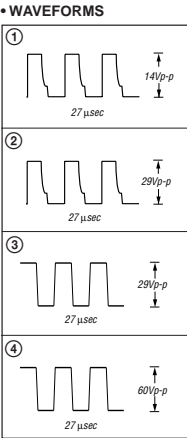
**THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.**  
(In addition to this, the necessary note is printed in each block.)

**For schematic diagrams.**  
**Note:**

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $1/4\text{ W}$  or less unless otherwise specified.
- $\Delta$  : internal component.
- $\square$  : panel designation.
- $\text{B}+$  : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- no mark : POWER ON
- \* : Impossible to measure
- Voltages are taken with a VOM (input impedance 10 M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- $\Rightarrow$  : AUDIO

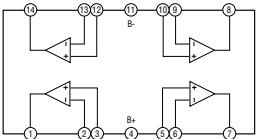
**For printed wiring boards.**  
**Note:**

- $\circ$  : parts extracted from the component side.
- $\Delta$  : internal component.

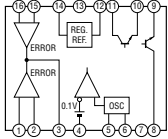


3-1. IC BLOCK DIAGRAMS

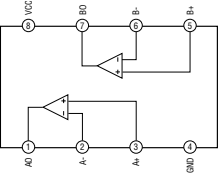
IC101  $\mu\text{PC4570G2}$



IC901  $\mu\text{PC494GS}$



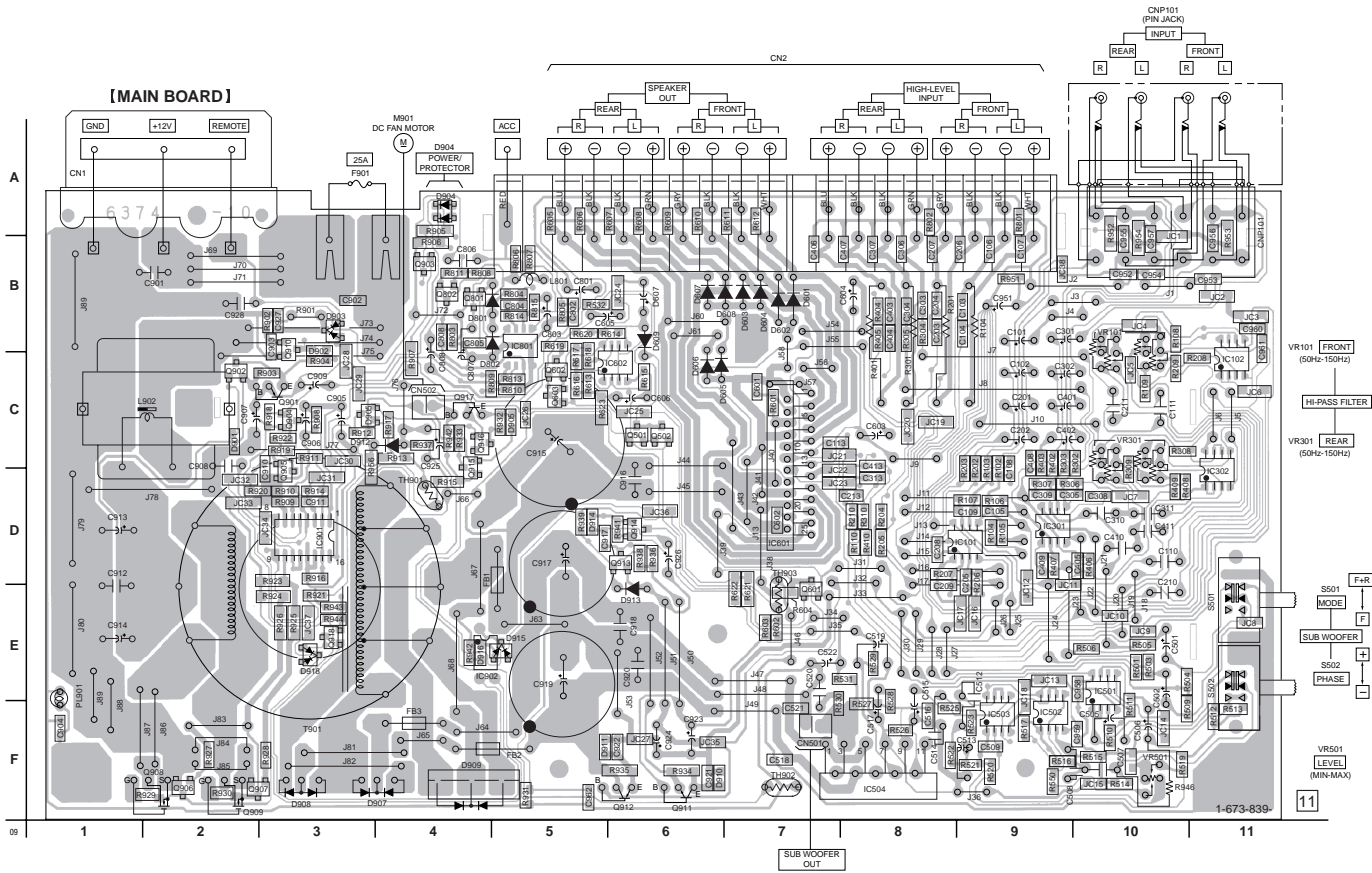
IC602 LM2904M



• Semiconductor Location

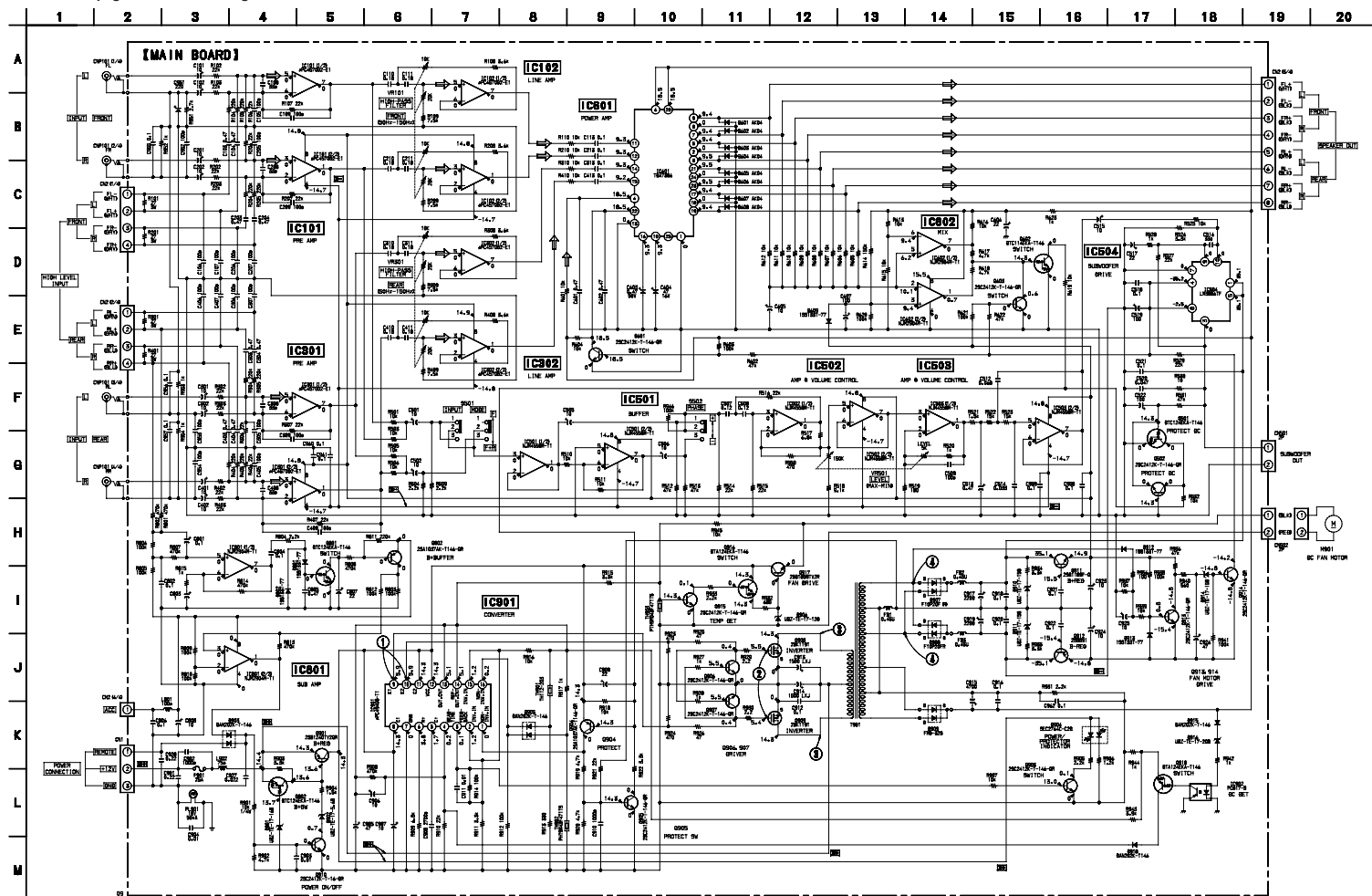
Ref. No.	Location
D601	C-7
D602	C-7
D603	B-7
D604	B-7
D605	C-7
D606	C-6
D607	B-6
D608	B-7
D609	B-6
D801	B-5
D802	B-5
D901	C-2
D902	B-3
D903	D-3
D904	A-4
D905	C-3
D906	C-5
D907	F-4
D908	F-3
D909	F-4
D910	F-5
D911	F-5
D912	C-4
D913	C-6
D914	D-5
D915	E-5
D916	E-4
D918	E-3
IC101	D-9
IC102	C-11
IC301	D-9
IC302	D-11
IC501	E-10
IC502	F-9
IC503	F-9
IC504	F-8
IC601	D-7
IC602	C-6
IC801	B-5
IC901	D-3
IC902	E-4
Q501	C-6
Q502	C-6
Q601	E-7
Q602	C-5
Q603	C-4
Q801	B-4
Q802	B-4
Q901	C-3
Q902	C-2
Q903	B-4
Q904	C-3
Q905	C-3
Q906	F-2
Q907	F-2
Q908	F-2
Q909	F-2
Q910	B-3
Q911	F-6
Q912	F-6
Q913	D-6
Q914	D-6
Q915	C-4
Q916	C-4
Q917	C-4
Q918	E-3

3-2. PRINTED WIRING BOARD



## 3-3. SCHEMATIC DIAGRAM

- Refer to page 6 for Waveforms and Note.
- Refer to page 6 for IC Block Diagrams.

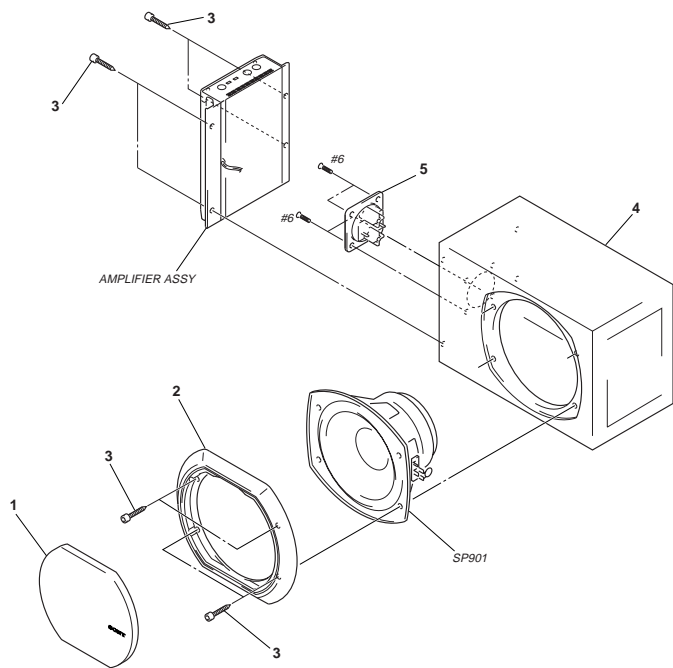


SECTION 4  
EXPLODED VIEWS

NOTE:

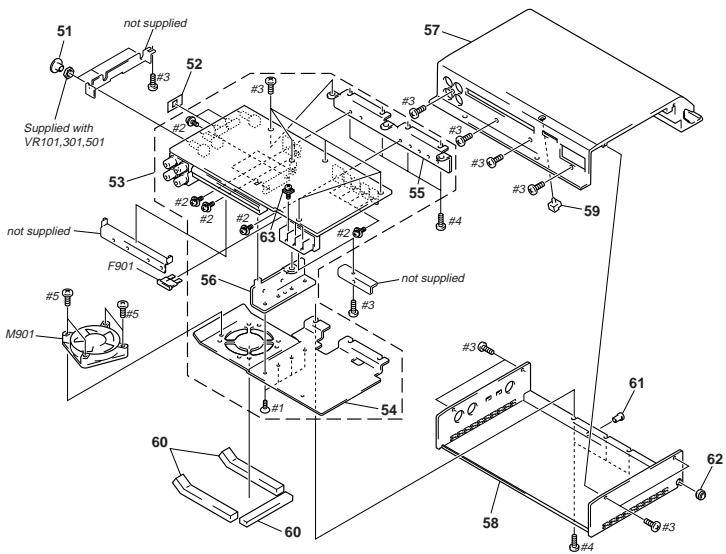
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

(1) SPEAKER AND AMPLIFIER SECTION



Ref. No.	Part No.	Description	Remark
1	X-3377-583-1	NET ASSY	
2	3-037-207-01	GRILLE	
3	3-037-208-01	SCREW (4x30), TAPPING	
* 4	3-037-206-01	BOX, SPEAKER	
5	1-694-575-11	TERMINAL BOARD	
SP901	1-529-397-11	SPEAKER (20cm)	

(2) AMPLIFIER SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-037-200-01	BUTTON		* 59	3-037-253-01	PLATE, LIGHT GUIDE	
* 52	3-037-524-01	SHEET		* 60	3-037-249-01	SPACER	
* 53	A-3317-759-A	MAIN BOARD, COMPLETE		61	3-038-125-01	GROMMET	
* 54	3-037-202-01	SUB (A), HEAT SINK		62	3-038-126-01	RING	
* 55	3-037-203-01	SUB (B), HEAT SINK		63	3-912-431-01	SCREW (P)	
* 56	3-037-204-01	SUB (C), HEAT SINK		F901	1-576-256-11	FUSE (BLADE TYPE) (AUTO FUSE) (25A)	
* 57	3-037-201-01	HEAT SINK (MAIN)		M901	1-763-366-11	MOTOR, DC FAN	
* 58	3-037-205-01	PANEL					



## SECTION 5 ELECTRICAL PARTS LIST

MAIN

Note:

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS  
All resistors are in ohms  
METAL: Metal-film resistor  
METAL OXIDE: Metal Oxide-film resistor  
F : nonflammable

- SEMICONDUCTORS  
In each case, u:  $\mu$ , for example:  
uA...:  $\mu$  A..., uPA...:  $\mu$  PA..., uPB...:  $\mu$  PB...,  
uPC...:  $\mu$  PC..., uPD...:  $\mu$  PD...
- CAPACITORS  
uF :  $\mu$  F
- COILS  
uH :  $\mu$  H

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
*	A-3317-759-A	MAIN BOARD, COMPLETE *****					C402	1-126-964-11	ELECT	10uF	20%	50V	
							C403	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
							C404	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
*	3-037-202-01	SUB (A), HEAT SINK					C405	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
*	3-037-203-01	SUB (B), HEAT SINK					C406	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
*	3-037-204-01	SUB (C), HEAT SINK					C407	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
	7-682-249-04	SCREW +K 3x10					C408	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	
	7-682-949-01	SCREW +PSW 3x10					C409	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
	7-685-546-19	SCREW +BTP 3x8 TYPE2 N-S					C410	1-136-168-00	FILM	0.18uF	5%	50V	
		< CAPACITOR >					C411	1-136-168-00	FILM	0.18uF	5%	50V	
C101	1-126-964-11	ELECT	10uF	20%	50V		C413	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C102	1-126-964-11	ELECT	10uF	20%	50V		C501	1-126-964-11	ELECT	10uF	20%	50V	
C103	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V		C502	1-126-964-11	ELECT	10uF	20%	50V	
C104	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V								
C105	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		C505	1-126-964-11	ELECT	10uF	20%	50V	
C106	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		C506	1-126-964-11	ELECT	10uF	20%	50V	
C107	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		C507	1-136-166-00	FILM	0.12uF	5%	50V	
C108	1-163-239-11	CERAMIC CHIP	33PF	5%	50V		C508	1-136-166-00	FILM	0.12uF	5%	50V	
C109	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		C509	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C110	1-136-168-00	FILM	0.18uF	5%	50V		C512	1-136-163-00	FILM	0.068uF	5%	50V	
C111	1-136-168-00	FILM	0.18uF	5%	50V		C513	1-126-959-11	ELECT	0.47uF	20%	50V	
C113	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V		C514	1-136-159-00	FILM	0.033uF	5%	50V	
C201	1-126-964-11	ELECT	10uF	20%	50V		C515	1-126-964-11	ELECT	10uF	20%	50V	
C202	1-126-964-11	ELECT	10uF	20%	50V		C516	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	
C203	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V								
C204	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V		C517	1-126-965-11	ELECT	22uF	20%	50V	
C205	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		C518	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C206	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		C519	1-126-933-11	ELECT	100uF	20%	16V	
C207	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		C520	1-136-161-00	FILM	0.047uF	5%	50V	
C208	1-163-239-11	CERAMIC CHIP	33PF	5%	50V		C521	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C209	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		C522	1-126-933-11	ELECT	100uF	20%	16V	
C210	1-136-168-00	FILM	0.18uF	5%	50V		C601	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
C211	1-136-168-00	FILM	0.18uF	5%	50V		C602	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
C213	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V		C603	1-126-959-11	ELECT	0.47uF	20%	50V	
C301	1-126-964-11	ELECT	10uF	20%	50V		C604	1-104-664-11	ELECT	47uF	20%	16V	
C302	1-126-964-11	ELECT	10uF	20%	50V		C605	1-126-964-11	ELECT	10uF	20%	50V	
C303	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V		C606	1-126-965-11	ELECT	22uF	20%	50V	
C304	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V		C607	1-126-933-11	ELECT	100uF	20%	16V	
C305	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		C801	1-126-956-11	ELECT	0.1uF	20%	50V	
C306	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		C802	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C307	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		C803	1-126-960-11	ELECT	1uF	20%	50V	
C308	1-163-239-11	CERAMIC CHIP	33PF	5%	50V		C804	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	
C309	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		C805	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
C310	1-136-168-00	FILM	0.18uF	5%	50V		C806	1-136-165-00	FILM	0.1uF	5%	50V	
C311	1-136-168-00	FILM	0.18uF	5%	50V		C807	1-126-965-11	ELECT	22uF	20%	50V	
C313	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V		C808	1-126-964-11	ELECT	10uF	20%	50V	
C401	1-126-964-11	ELECT	10uF	20%	50V		C901	1-136-169-00	FILM	0.22uF	5%	50V	
							C902	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V	
							C903	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V	
							C904	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	

Ref. No.	Part No.	Description			Remark
C905	1-104-664-11	ELECT	47uF	20%	16V
C906	1-126-964-11	ELECT	10uF	20%	50V
C907	1-126-964-11	ELECT	10uF	20%	50V
C908	1-130-476-00	MYLAR	0.0027uF	5%	50V
C909	1-126-965-11	ELECT	22uF	20%	50V
C910	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C911	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C912	1-136-165-00	FILM	0.1uF	5%	50V
C913	1-115-790-11	ELECT	1500uF	20%	16V
C914	1-115-790-11	ELECT	1500uF	20%	16V
C915	1-128-601-11	ELECT	4700uF	20%	25V
C916	1-136-165-00	FILM	0.1uF	5%	50V
C917	1-107-915-91	ELECT	2200uF	20%	50V
C918	1-136-165-00	FILM	0.1uF	5%	50V
C919	1-107-915-91	ELECT	2200uF	20%	50V
C920	1-136-165-00	FILM	0.1uF	5%	50V
C921	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C922	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C923	1-126-964-11	ELECT	10uF	20%	50V
C924	1-126-964-11	ELECT	10uF	20%	50V
C925	1-126-964-11	ELECT	10uF	20%	50V
C926	1-104-664-11	ELECT	47uF	20%	16V
C927	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C928	1-136-169-00	FILM	0.22uF	5%	50V
C951	1-126-934-11	ELECT	220uF	20%	16V
C952	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C953	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C954	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C955	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C956	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C957	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C958	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C959	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C960	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C961	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C962	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
		< CONNECTOR >			
CN1	1-537-477-21	TERMINAL BOARD (3P)			
CN2	1-793-227-11	CONNECTOR 17P			
* CN502	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
CNP101	1-793-228-11	JACK, PIN (INPUT)			
		< DIODE >			
D601	8-719-043-76	DIODE	AK04V0		
D602	8-719-043-76	DIODE	AK04V0		
D603	8-719-043-76	DIODE	AK04V0		
D604	8-719-043-76	DIODE	AK04V0		
D605	8-719-043-76	DIODE	AK04V0		
D606	8-719-043-76	DIODE	AK04V0		
D607	8-719-043-76	DIODE	AK04V0		
D608	8-719-043-76	DIODE	AK04V0		
D609	8-719-991-33	DIODE	1SS133T-77		
D801	8-719-991-33	DIODE	1SS133T-77		
D802	8-719-991-33	DIODE	1SS133T-77		
D901	8-719-978-69	DIODE	DTZ-TT11-16B		
D902	8-719-158-15	DIODE	RD5.6S-B		
D903	8-719-914-43	DIODE	DAN202K		

Ref. No.	Part No.	Description	Remark
D904	8-719-071-95	DIODE SEC2764C-C2D	
D905	8-719-914-43	DIODE DAN202K	
D906	8-719-158-49	DIODE RD12SB2	
D907	8-719-210-30	DIODE F10P20F(R)	
D908	8-719-210-38	DIODE F10P20FR	
D909	8-719-023-35	DIODE FMG-32S	
D910	8-719-978-65	DIODE UDZ-TE-17-15B	
D911	8-719-978-65	DIODE UDZ-TE-17-15B	
D912	8-719-991-33	DIODE 1SS133T-77	
D913	8-719-991-33	DIODE 1SS133T-77	
D914	8-719-978-65	DIODE UDZ-TE-17-15B	
D915	8-719-914-43	DIODE DAN202K	
D916	8-719-056-94	DIODE UDZ-TE-17-20B	
D918	8-719-914-43	DIODE DAN202K	
< FERRITE BEAD >			
FB1	1-410-396-41	INDUCTOR 0.45UH	
FB2	1-410-396-41	INDUCTOR 0.45UH	
FB3	1-410-396-41	INDUCTOR 0.45UH	
< IC >			
IC101	8-759-106-02	IC uPC4570G2	
IC102	8-759-106-02	IC uPC4570G2	
IC301	8-759-106-02	IC uPC4570G2	
IC302	8-759-106-02	IC uPC4570G2	
IC501	8-759-100-96	IC uPC4558G2	
IC502	8-759-100-96	IC uPC4558G2	
IC503	8-759-100-96	IC uPC4558G2	
IC504	8-759-299-54	IC LM3886TF	
IC601	8-759-486-44	IC TDA7386	
IC602	8-759-981-69	IC LM2904M	
IC801	8-759-981-69	IC LM2904M	
IC901	8-759-144-88	IC uPC494GS	
IC902	8-719-936-96	IC PHOTO COUPLER PC817-B	
< COIL >			
L801	1-410-521-11	INDUCTOR 100uH	
L902	1-424-638-11	INDUCTOR 75uH	
< PILOT LAMP >			
PL901	1-518-540-00	LAMP, PILOT	
< TRANSISTOR >			
Q501	8-729-901-00	TRANSISTOR DTC124EK	
Q502	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q601	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q602	8-729-900-53	TRANSISTOR DTC114EK	
Q603	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q801	8-729-901-00	TRANSISTOR DTC124EK	
Q802	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q901	8-729-040-88	TRANSISTOR 2SB1240TV2QR	
Q902	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q903	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q904	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q905	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q906	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
Q907	8-729-120-28	TRANSISTOR	2SC1623-L5L6				R506	1-208-462-61	RES,CHIP	10K	2%	1/10W	
Q908	8-729-322-52	TRANSISTOR	2SK1191										
Q909	8-729-322-52	TRANSISTOR	2SK1191				R509	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W	
Q910	8-729-120-28	TRANSISTOR	2SC1623-L5L6				R510	1-208-462-61	RES,CHIP	10K	2%	1/10W	
Q911	8-729-931-17	TRANSISTOR	2SD1189F-Q				R511	1-208-462-61	RES,CHIP	10K	2%	1/10W	
Q912	8-729-925-37	TRANSISTOR	2SB891				R512	1-208-526-61	RES,CHIP	47K	2%	1/10W	
Q913	8-729-120-28	TRANSISTOR	2SC1623-L5L6				R513	1-208-526-61	RES,CHIP	47K	2%	1/10W	
Q914	8-729-120-28	TRANSISTOR	2SC1623-L5L6				R514	1-208-518-61	RES,CHIP	22K	2%	1/10W	
Q915	8-729-120-28	TRANSISTOR	2SC1623-L5L6				R515	1-208-518-61	RES,CHIP	22K	2%	1/10W	
Q916	8-729-027-31	TRANSISTOR	DTA124EKA-T146				R516	1-208-518-61	RES,CHIP	22K	2%	1/10W	
Q917	8-729-032-95	TRANSISTOR	2SD1859TV2R				R517	1-216-671-11	METAL CHIP	6.8K	0.5%	1/10W	
Q918	8-729-027-31	TRANSISTOR	DTA124EKA-T146				R518	1-208-805-11	RES,CHIP	9.1K	2%	1/10W	
< RESISTOR >							R519	1-208-764-11	RES,CHIP	180	2%	1/10W	
R101	1-216-471-11	METAL OXIDE	27	5%	3W	F	R520	1-208-437-61	RES,CHIP	1K	2%	1/10W	
R102	1-208-518-61	RES,CHIP	22K	2%			R521	1-208-441-61	RES,CHIP	1.5K	2%	1/10W	
R103	1-208-518-61	RES,CHIP	22K	2%			R522	1-208-810-11	RES,CHIP	15K	2%	1/10W	
R104	1-218-760-11	RES,CHIP	220K	2%			R523	1-208-810-11	RES,CHIP	15K	2%	1/10W	
R105	1-218-760-11	RES,CHIP	220K	2%									
R106	1-208-518-61	RES,CHIP	22K	2%			R525	1-208-462-61	RES,CHIP	10K	2%	1/10W	
R107	1-208-518-61	RES,CHIP	22K	2%			R526	1-208-449-61	RES,CHIP	3.3K	2%	1/10W	
R108	1-208-795-11	RES,CHIP	3.6K	2%			R527	1-216-230-00	RES,CHIP	22K	2%	1/8W	
R109	1-208-803-11	RES,CHIP	7.5K	2%			R528	1-208-437-61	RES,CHIP	1K	2%	1/10W	
R110	1-208-462-61	RES,CHIP	10K	2%			R529	1-208-518-61	RES,CHIP	22K	2%	1/10W	
R201	1-216-471-11	METAL OXIDE	27	5%	3W	F	R530	1-216-150-00	RES,CHIP	10	2%	1/8W	
R202	1-208-518-61	RES,CHIP	22K	2%			R531	1-208-526-61	RES,CHIP	47K	2%	1/10W	
R203	1-208-518-61	RES,CHIP	22K	2%			R532	1-208-462-61	RES,CHIP	10K	2%	1/10W	
R204	1-218-760-11	RES,CHIP	220K	2%			R550	1-208-774-11	RES,CHIP	470	2%	1/10W	
R205	1-218-760-11	RES,CHIP	220K	2%			R601	1-208-462-61	RES,CHIP	10K	2%	1/10W	
R206	1-208-518-61	RES,CHIP	22K	2%			R602	1-208-526-61	RES,CHIP	47K	2%	1/10W	
R207	1-208-518-61	RES,CHIP	22K	2%			R603	1-208-534-61	RES,CHIP	100K	2%	1/10W	
R208	1-208-795-11	RES,CHIP	3.6K	2%			R604	1-208-462-61	RES,CHIP	10K	2%	1/10W	
R209	1-208-803-11	RES,CHIP	7.5K	2%			R605	1-208-534-61	RES,CHIP	100K	2%	1/10W	
R210	1-208-462-61	RES,CHIP	10K	2%			R606	1-208-534-61	RES,CHIP	100K	2%	1/10W	
R301	1-216-471-11	METAL OXIDE	27	5%	3W	F	R607	1-208-534-61	RES,CHIP	100K	2%	1/10W	
R302	1-208-518-61	RES,CHIP	22K	2%			R608	1-208-534-61	RES,CHIP	100K	2%	1/10W	
R303	1-208-518-61	RES,CHIP	22K	2%			R609	1-208-534-61	RES,CHIP	100K	2%	1/10W	
R304	1-218-760-11	RES,CHIP	220K	2%			R610	1-208-534-61	RES,CHIP	100K	2%	1/10W	
R305	1-218-760-11	RES,CHIP	220K	2%			R611	1-208-534-61	RES,CHIP	100K	2%	1/10W	
R306	1-208-518-61	RES,CHIP	22K	2%			R612	1-208-534-61	RES,CHIP	100K	2%	1/10W	
R307	1-208-518-61	RES,CHIP	22K	2%			R613	1-208-462-61	RES,CHIP	10K	2%	1/10W	
R308	1-208-795-11	RES,CHIP	3.6K	2%			R614	1-218-756-11	RES,CHIP	150K	2%	1/10W	
R309	1-208-803-11	RES,CHIP	7.5K	2%			R615	1-208-812-11	RES,CHIP	18K	2%	1/10W	
R310	1-208-462-61	RES,CHIP	10K	2%			R616	1-208-462-61	RES,CHIP	10K	2%	1/10W	
R401	1-216-471-11	METAL OXIDE	27	5%	3W	F	R617	1-208-453-61	RES,CHIP	4.7K	2%	1/10W	
R402	1-208-518-61	RES,CHIP	22K	2%			R618	1-208-453-61	RES,CHIP	4.7K	2%	1/10W	
R403	1-208-518-61	RES,CHIP	22K	2%			R619	1-208-462-61	RES,CHIP	10K	2%	1/10W	
R404	1-218-760-11	RES,CHIP	220K	2%			R620	1-208-534-61	RES,CHIP	100K	2%	1/10W	
R405	1-218-760-11	RES,CHIP	220K	2%			R621	1-216-246-00	RES,CHIP	100K	2%	1/8W	
R406	1-208-518-61	RES,CHIP	22K	2%			R622	1-216-238-00	RES,CHIP	47K	2%	1/8W	
R407	1-208-518-61	RES,CHIP	22K	2%			R623	1-208-486-61	RES,CHIP	1K	2%	1/8W	
R408	1-208-795-11	RES,CHIP	3.6K	2%			R801	1-208-550-61	RES,CHIP	470K	2%	1/10W	
R409	1-208-803-11	RES,CHIP	7.5K	2%			R802	1-208-550-61	RES,CHIP	470K	2%	1/10W	
R410	1-208-462-61	RES,CHIP	10K	2%			R803	1-208-534-61	RES,CHIP	100K	2%	1/10W	
R501	1-208-462-61	RES,CHIP	10K	2%			R804	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W	
R503	1-208-462-61	RES,CHIP	10K	2%			R805	1-208-534-61	RES,CHIP	100K	2%	1/10W	
R504	1-216-659-11	METAL CHIP	2.2K	0.5%			R806	1-208-534-61	RES,CHIP	100K	2%	1/10W	
R505	1-208-462-61	RES,CHIP	10K	2%			R807	1-208-550-61	RES,CHIP	470K	2%	1/10W	
							R808	1-208-550-61	RES,CHIP	470K	2%	1/10W	
							R809	1-208-534-61	RES,CHIP	100K	2%	1/10W	

## MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R810	1-208-534-61	RES,CHIP	100K 2% 1/10W			< SWITCH >	
R811	1-218-760-11	RES,CHIP	220K 2% 1/10W				
R812	1-208-534-61	RES,CHIP	100K 2% 1/10W	S501	1-692-721-11	SWITCH, SLIDE (SUB WOOFER/MODE)	
R813	1-208-550-61	RES,CHIP	470K 2% 1/10W	S502	1-692-721-11	SWITCH, SLIDE (SUB WOOFER/PHASE)	
R814	1-208-550-61	RES,CHIP	470K 2% 1/10W			< TRANSFORMER >	
R815	1-208-437-61	RES,CHIP	1K 2% 1/10W				
R901	1-214-753-00	METAL	10K 1% 1/4W	T901	1-433-908-11	TRANSFORMER, DC-DC CONVERTER	
R902	1-208-453-61	RES,CHIP	4.7K 2% 1/10W				
R903	1-208-449-61	RES,CHIP	3.3K 2% 1/10W			< THERMISTOR >	
R904	1-208-441-61	RES,CHIP	1.5K 2% 1/10W	TH901	1-808-877-11	THERMISTOR	
R905	1-208-494-61	RES,CHIP	2.2K 2% 1/8W	TH902	1-809-789-71	THERMISTOR, POSITIVE	
R906	1-208-488-11	RES,CHIP	1.2K 2% 1/8W	TH903	1-809-789-71	THERMISTOR, POSITIVE	
R907	1-208-510-61	RES,CHIP	10K 2% 1/8W				
R908	1-208-550-61	RES,CHIP	470K 2% 1/10W			< VARIABLE RESISTOR >	
R909	1-216-671-11	METAL CHIP	6.8K 0.5% 1/10W	VR101	1-225-848-11	RES, VAR (HI-PASS FILTER/FRONT)	
R910	1-208-518-61	RES,CHIP	22K 2% 1/10W	VR301	1-225-848-11	RES, VAR (HI-PASS FILTER/REAR)	
R911	1-208-449-61	RES,CHIP	3.3K 2% 1/10W	VR501	1-225-847-11	RES, VAR (LEVEL)	
R912	1-208-534-61	RES,CHIP	100K 2% 1/10W				
R913	1-208-474-61	RES,CHIP	330 2% 1/8W				
R914	1-208-534-61	RES,CHIP	100K 2% 1/10W			MISCELLANEOUS	
R915	1-216-210-00	RES,CHIP	3.3K 2% 1/8W			*****	
R916	1-208-462-61	RES,CHIP	10K 2% 1/10W				
R917	1-208-437-61	RES,CHIP	1K 2% 1/10W	5	1-694-575-11	TERMINAL BOARD	
R918	1-208-462-61	RES,CHIP	10K 2% 1/10W	F901	1-576-256-11	FUSE (BLADE TYPE) (AUTO FUSE)	
				M901	1-763-366-11	MOTOR, DC FAN	
R919	1-208-453-61	RES,CHIP	4.7K 2% 1/10W	SP901	1-529-397-11	SPEAKER (20cm)	
R920	1-208-453-61	RES,CHIP	4.7K 2% 1/10W				
R921	1-208-518-61	RES,CHIP	22K 2% 1/10W				
R922	1-208-449-61	RES,CHIP	3.3K 2% 1/10W				
R923	1-208-478-11	RES,CHIP	470 2% 1/8W			ACCESSORIES & PACKING MATERIALS	
						*****	
R924	1-208-478-11	RES,CHIP	470 2% 1/8W				
R925	1-208-405-61	RES,CHIP	47 2% 1/8W				
R926	1-208-405-61	RES,CHIP	47 2% 1/8W	3-013-264-01		COVER, 3P TERMINAL TABLE	
R927	1-208-437-61	RES,CHIP	1K 2% 1/10W	3-037-167-01		SEAL (INPUT/OUTPUT)	
R928	1-208-437-61	RES,CHIP	1K 2% 1/10W	3-866-441-11		MANUAL, INSTRUCTION (ENGLISH)	
R929	1-208-373-11	RES,CHIP	2.2 2% 1/8W				
R930	1-208-373-11	RES,CHIP	2.2 2% 1/8W				
R931	1-216-659-11	METAL CHIP	2.2K 0.5% 1/10W				
R932	1-216-647-11	METAL CHIP	680 0.5% 1/10W			HARDWARE LIST	
R933	1-216-659-11	METAL CHIP	2.2K 0.5% 1/10W			*****	
R934	1-216-210-00	RES,CHIP	3.3K 2% 1/8W	#1	7-682-249-04	SCREW +K 3x10	
R935	1-216-210-00	RES,CHIP	3.3K 2% 1/8W	#2	7-682-949-01	SCREW +PSW 3x10	
R936	1-208-526-61	RES,CHIP	47K 2% 1/10W	#3	7-685-546-19	SCREW +BTP 3x8 TYPE2 N-S	
R937	1-208-462-61	RES,CHIP	10K 2% 1/10W	#4	7-685-547-14	SCREW +BTP 3x10 TYPE2 N-S	
R938	1-208-534-61	RES,CHIP	100K 2% 1/10W	#5	7-685-649-79	SCREW +BTP 3x14 TYPE2 N-S	
R939	1-208-462-61	RES,CHIP	10K 2% 1/10W	#6	7-685-249-09	SCREW +K 3x14 TYPE1	
R940	1-208-776-11	RES,CHIP	560 2% 1/10W				
R941	1-208-534-61	RES,CHIP	100K 2% 1/10W				
R942	1-208-437-61	RES,CHIP	1K 2% 1/10W				
R943	1-216-665-11	METAL CHIP	3.9K 0.5% 1/10W				
R944	1-208-437-61	RES,CHIP	1K 2% 1/10W	101	3-037-199-01	BRACKET	
R945	1-208-462-61	RES,CHIP	10K 2% 1/10W	102	A-3327-392-A	SCREW ASSY	
R946	1-249-441-11	CARBON	100K 5% 1/4W				
R951	1-216-661-11	METAL CHIP	2.7K 0.5% 1/10W				
R952	1-208-486-61	RES,CHIP	1K 2% 1/8W				
R953	1-208-486-61	RES,CHIP	1K 2% 1/8W				
R954	1-208-486-61	RES,CHIP	1K 2% 1/8W				
R956	1-216-174-00	RES,CHIP	100 2% 1/8W				

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